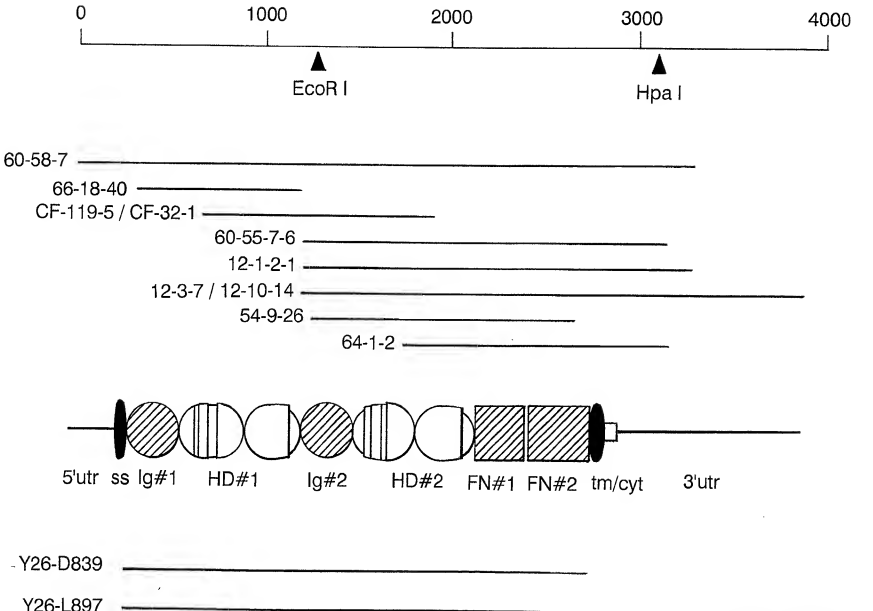

0
1000
2000
3000
4000
EcoR I
Hpa I
60-58-7
66-18-40
CF-119-5 / CF-32-1
60-55-7-6
12-1-2-1
12-3-7 / 12-10-14
54-9-26
64-1-2
5'utr
ss
Ig#1
HD#1
Ig#2
HD#2
FN#1
FN#2
tm/cyt
3'utr
Y26-D839
Y26-L897

Figure 1

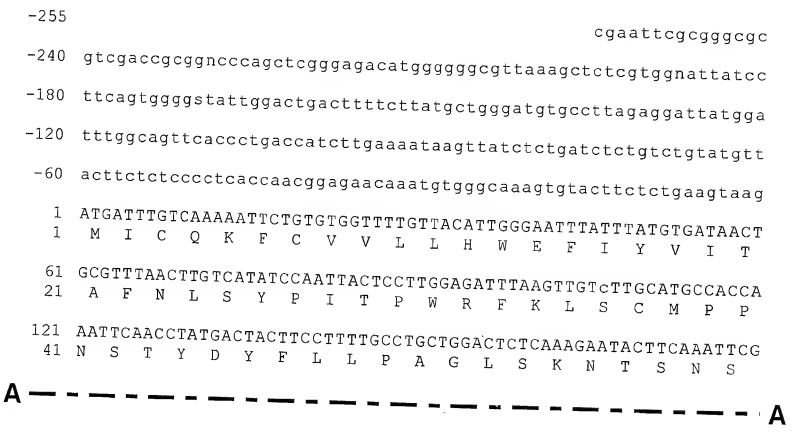


Figure 2A

A - A

```
181 AATGGACATTATGAGACAGCTGTTGAACCTAAGTTTAATTCAAGTGGTACTCACTTTTCT
 61  N  G  H  Y  E  T  A  V  E  P  K  F  N  S  S  G  T  H  F  S

241 AACTTATCCAAAACAACTTTCCACTGTTGCTTTCGGAGTGAGCAAGATAGAAACTGCTCC
 81  N  L  S  K  T  T  F  H  C  C  F  R  S  E  Q  D  R  N  C  S

301 TTATGTGCAGACAACATTGAAGGAAGGACATTTGTTTCAACAGTAAATTCTTTAGTTTTT
101  L  C  A  D  N  I  E  G  R  T  F  V  S  T  V  N  S  L  V  F

361 CAACAAATAGATgCAAACTGGAACATACAGTGCTGGCTAAAAGGAGACTTAAAATTATTC
121  Q  Q  I  D  A  N  W  N  I  Q  C  W  L  K  G  D  L  K  L  F

421 ATCTGTTATGTGGAGTCATTATTTAAGAATCTATTCAGGAATTATAACTATAAGGTCCAT
141  I  C  Y  V  E  S  L  F  K  N  L  F  R  N  Y  N  Y  K  V  H
```

B - B

Figure 2B

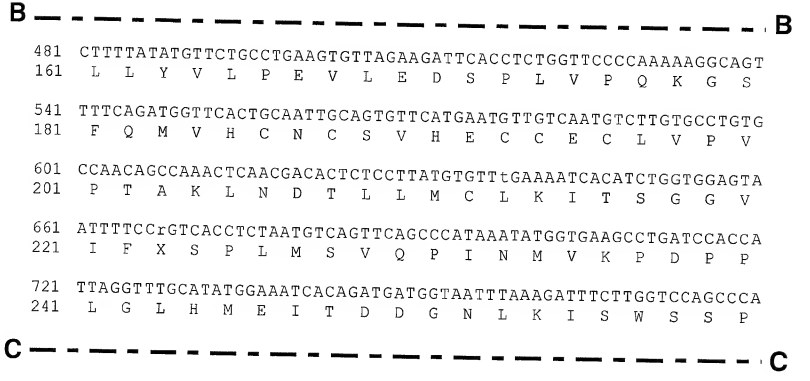


Figure 2C

Figure 2D

D — D

```
1081 GTTCCCTCAAAAGAGATTGTTTGGTGGATGAATTTAGCTGAGAAAATTCCTCAAAGCCAG
361   V  P  S  K  E  I  V  W  W  M  N  L  A  E  K  I  P  Q  S  Q

1141 TATGATGTTGTGAGTGATCATGTTAGCAAAGTTACTTTTTTCAATCTGAATGAAACCAAA
381   Y  D  V  V  S  D  H  V  S  K  V  T  F  F  N  L  N  E  T  K

1201 CCTCGAGGAAAGTTTACCTATGATGCAGTGTACTGCTGCAATGAACATGAATGCCATCAT
401   P  R  G  K  F  T  Y  D  A  V  Y  C  C  N  E  H  E  C  H  H

1261 CGCTATGCTGAATTATATGTGATTGATGTCAATATCAATATCTCATGTGAAACTGATGGG
421   R  Y  A  E  L  Y  V  I  D  V  N  I  N  I  S  C  E  T  D  G

1321 TACTTAACTAAAATGACTTGCAGATGGTCAACCAGTACAATCCAGTCACTTGCGGAAAGC
441   Y  L  T  K  M  T  C  R  W  S  T  S  T  I  Q  S  L  A  E  S
```

E — E

Figure 2E

E - E

```
1381 ACTTTGCAATTGAGGTATCATAGGAGCAGCCTTTACTGTTCTGATATTCCATCTATTCAT
 461  T  L  Q  L  R  Y  H  R  S  S  L  Y  C  S  D  I  P  S  I  H

1441 CCCATATCTGAGCCCAAAGATTGCTATTTGCAGAGTGATGGTTTTTATGAATGCATTTTC
 481  P  I  S  E  P  K  D  C  Y  L  Q  S  D  G  F  Y  E  C  I  F

1501 CAGCCAATCTTCCTATTATCTGGCTACACAATGTGGATTAGGATCAATCACTCTCTAGGT
 501  Q  P  I  F  L  L  S  G  Y  T  M  W  I  R  I  N  H  S  L  G

1561 TCACTTGACTCTCCACCAACATGTGTCCTTCCTGATTCTGTGGTGAAGcCACTGcCTCCA
 521  S  L  D  S  P  P  T  C  V  L  P  D  S  V  V  K  P  L  P  P

1621 TCCAGTGTGAAAGCAGAAATTACTATAAACATTGGATTATTGAAAATATCTTGGGAAAAG
 541  S  S  V  K  A  E  I  T  I  N  I  G  L  L  K  I  S  W  E  K
```

F - F

Figure 2F

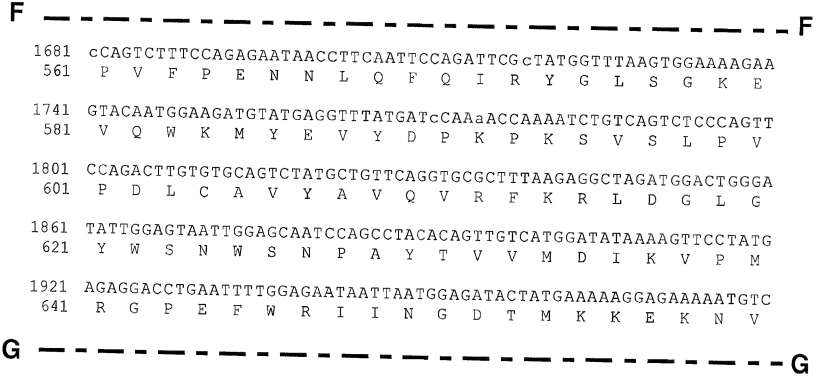


Figure 2G


G
G
1981 ACTTTACTTTGGAAGCCCCTGATGAAAAATGACTCATTGTGCAGTGTTCAGAGATATGTG
661 T L L W K P L M K N D S L C S V Q R Y V
2041 ATAAACCATCATACTTCCTsCAATGGAACATGGTCAGAAGATGTGGGAAATCACACGAAA
681 I N H H T S X N G T W S E D V G N H T K
2101 TTCACTTTCCTGTGGACAGAGCAAGCACATACTGTTACGGTTCTGGCCATCAATTCAATT
701 F T F L W T E Q A H T V T V L A I N S I
2161 GGTGCTTCTGTTgCaAATtTTAATTTAACCTTTTCATGGCCtATGAGCAAAGTAAATATC
721 G A S V A N F N L T F S W P M S K V N I
2221 GTGCAGTCACTCAGTGCTTATCCTTTAAACAGCAGTTGTGTGATTGTTTCCTGGATACTA
741 V Q S L S A Y P L N S S C V I V S W I L
H
H

Figure 2H

Figure 2I

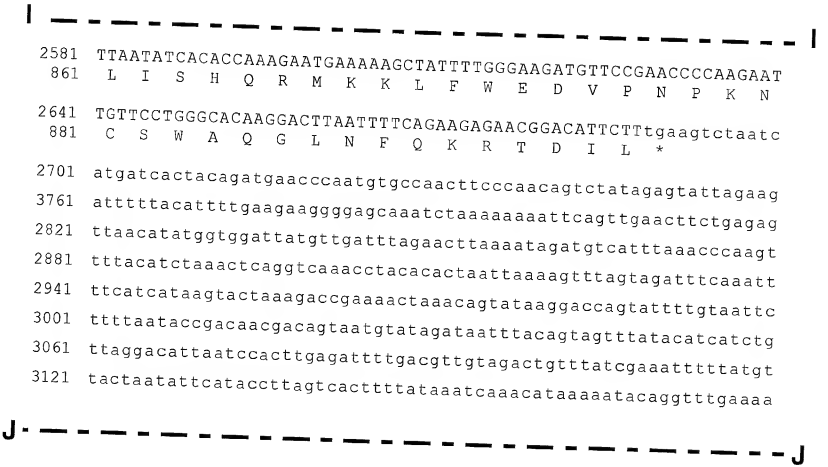

I
J
2581 TTAATATCACACCAAAGAATGAAAAAGCTATTTTGGGAAGATGTTCCGAACCCCAAGAAT
861 L I S H Q R M K K L F W E D V P N P K N
2641 TGTTCCTGGGCACAAGGACTTAATTTTCAGAAGAGAACGGACATTCTTtgaagtctaatc
881 C S W A Q G L N F Q K R T D I L *
2701 atgatcactacagatgaacccaatgtgccaacttcccaacagtctatagagtattagaag
3761 atttttacattttgaagaaggggagcaaatctaaaaaaaattcagttgaacttctgagag
2821 ttaacatatggtggattatgttgatttagaacttaaaatagatgtcatttaaacccaagt
2881 tttacatctaaactcaggtcaaacctacacactaattaaaagtttagtagatttcaaatt
2941 ttcatcataagtactaaagaccgaaaactaaacagtataaggaccagtattttgtaattc
3001 ttttaataccgacaacgacagtaatgtatagataatttacagtagtttatacatcatctg
3061 ttaggacattaatccacttgagattttgacgttgtagactgtttatcgaaatttttatgt
3121 tactaatattcataccttagtcacttttataaatcaaacataaaaatacaggtttgaaaa

Figure 2J

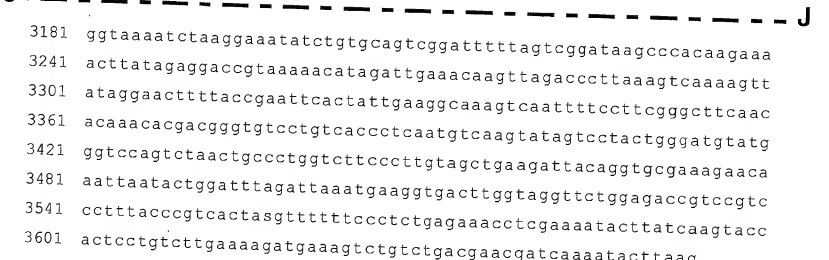

J
J
3181 ggtaaaatctaaggaaatatctgtgcagtcggatttttagtcggataagcccacaagaaa
3241 acttatagaggaccgtaaaaacatagattgaaacaagttagacccttaaagtcaaaagtt
3301 ataggaacttttaccgaattcactattgaaggcaaagtcaatttttccttcgggcttcaac
3361 acaaacacgacgggtgtcctgtcaccctcaatgtcaagtatagtcctactgggatgtatg
3421 ggtccagtctaactgccctggtcttcccttgtagctgaagattacaggtgcgaaagaaca
3481 aattaatactggatttagattaaatgaaggtgacttggtaggttctggagaccgtccgtc
3541 cctttacccgtcactasgttttttccctctgagaaacctcgaaaatacttatcaagtacc
3601 actcctgtcttgaaaagatgaaagtctgtctgacgaacgatcaaaatacttaag

Figure 2K

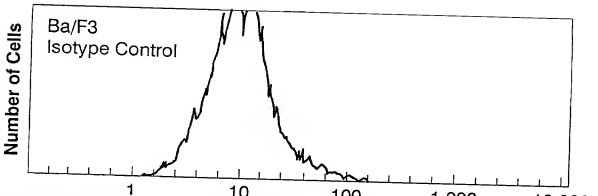


Figure 3A

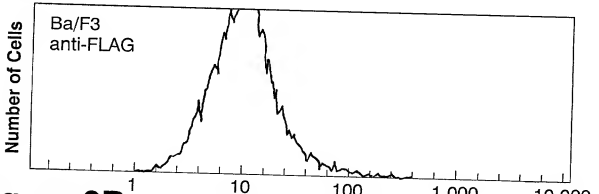


Figure 3B

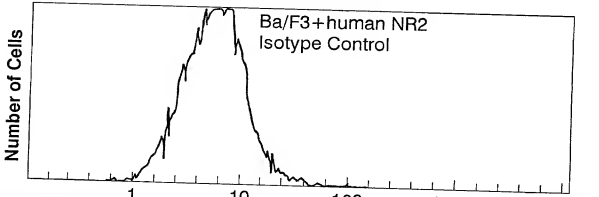


Figure 3C

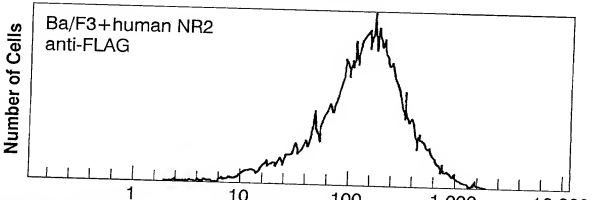


Figure 3D

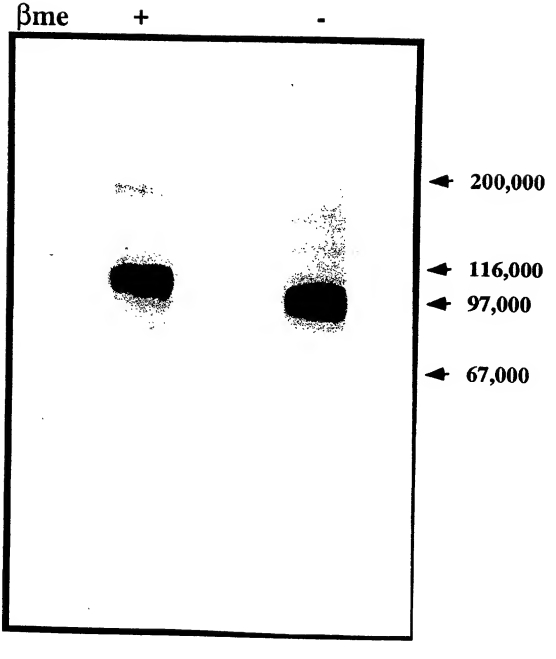


Figure 4

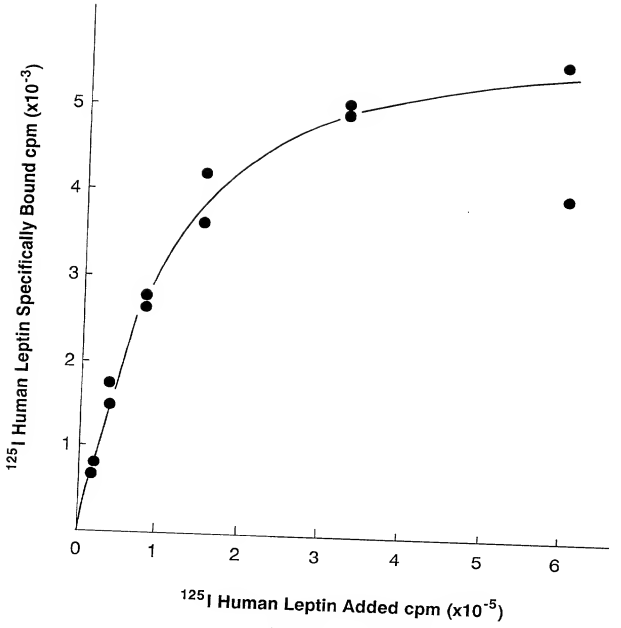

^{125}I Human Leptin Specifically Bound cpm (x10^{-3})
1
2
3
4
5
0
1
2
3
4
5
6
^{125}I Human Leptin Added cpm (x10^{-5})

Figure 5A

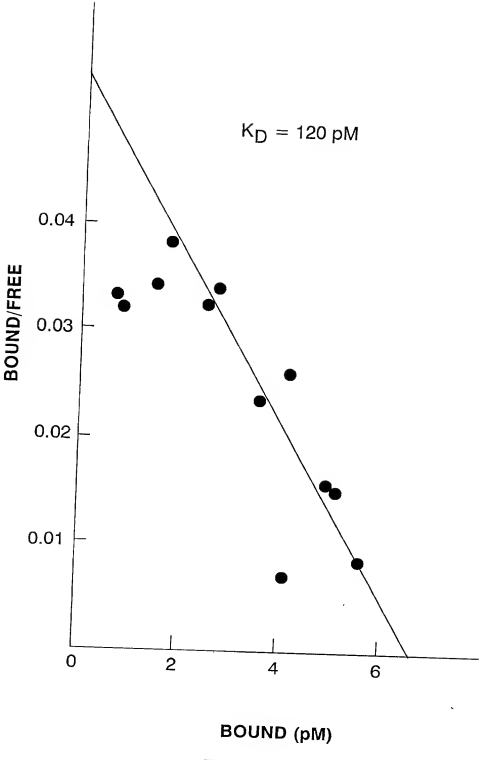


Figure 5B

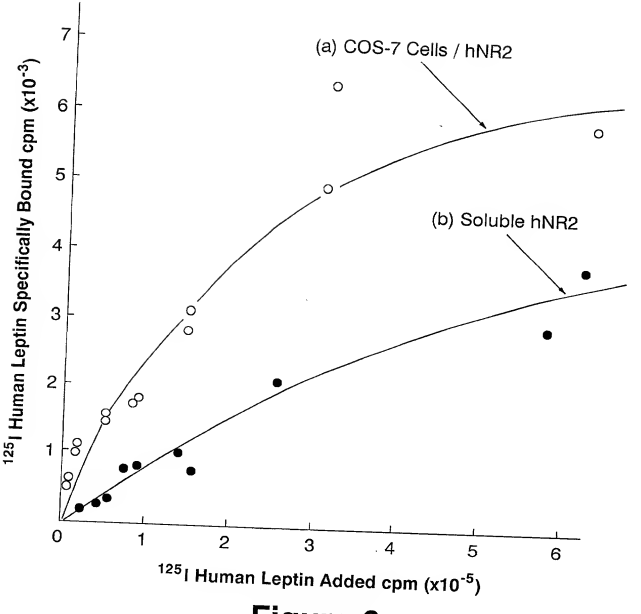
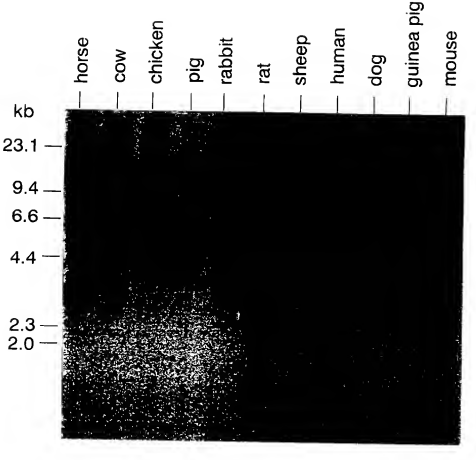

(a) COS-7 Cells / hNR2
(b) Soluble hNR2
^{125}I Human Leptin Specifically Bound cpm (x10^{-3})
^{125}I Human Leptin Added cpm (x10^{-5})
0
1
2
3
4
5
6
7

Figure 6



Cross-species conservation of the NR-2 gene

Figure 7

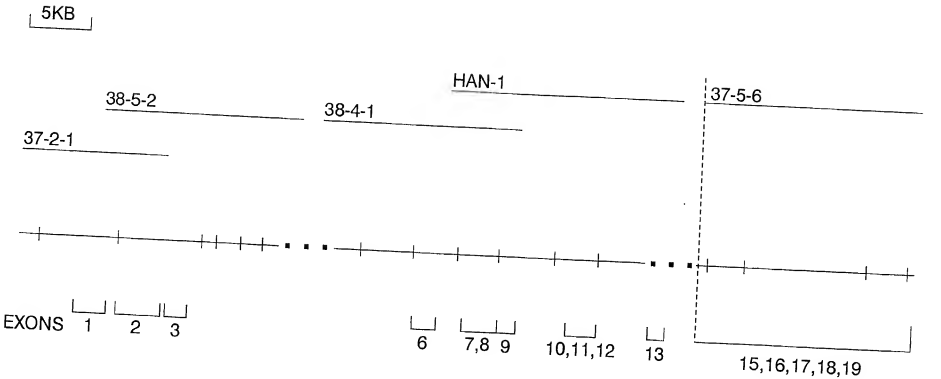


Figure 8

Expression of the Leptin Receptor (NR2) in murine tissues

Figure 9